

# ELM PROMO VIDEO

## Video Transcript

ELM, which stands for Emerging Literacy In Mathematics, is a digital tool created by the Centre for the Study of Learning and Performance, based at Concordia University. ELM provides children with a solid foundation in numeracy and reduces math anxiety.

Designed for Grade 1 classes, and available in both French and English, ELM aims to increase young children's mathematical competencies. The tool also encourages the use of strategic thinking and reasoning skills.

Guided by research, ELM features dozens of engaging activities designed to support children's deep conceptual understanding in broad themes such as number concept, geometry, patterns, data, and number lines. Each theme helps children develop competencies in specific areas. For example, number concept addresses counting, comparing, addition, subtraction, decomposition, and place value.

Activities feature a number of small steps that help children progress from concrete to abstract representations. Children work through these small steps in order, which allows them to repeatedly practice and build their mathematical fluency and confidence.

Steps are not timed, and include meaningful, non-threatening audio/visual feedback. Children always have access to a help button, but if a child makes multiple errors in a row, ELM suggests that they ask their teacher for help. The teacher will receive notifications about which students are experiencing difficulties.

To increase engagement, ELM uses a game-like structure in which children solve puzzles to earn badges and trading cards featuring animal friends.

ELM also comes with an extensive set of resource materials designed to support teachers in the classroom and parents in the home.

The *Teacher Module* provides access to an array of multimedia resources to help teachers integrate the use of ELM in their teaching. These resources include videos, tips and implementation strategies, along with dozens of lesson plans.

The consolidation questions, found in the lesson plans, can help uncover students' conceptual misunderstandings and help them synthesize new information with their prior knowledge.

The parent website has tips and suggested activities that parents or guardians can do with their child at home to help support their child's learning. For those that are uncomfortable with math themselves, we offer some advice on how you can avoid passing on those anxieties to your child.

ELM has been tested in several elementary schools around the world. Results show that children who used ELM for about 30 minutes a week scored higher on a standardized math test. They also reported less boredom and lower anxiety than their peers in the control group.

Furthermore, the feedback we've received from teachers has helped us improve the tool.

ELM offers students, teachers, and parents a framework for success in mathematics. ELM is designed to strengthen students' mathematical competencies and spark an interest in math and science careers. Most importantly, ELM empowers young people to become more numerate citizens.

We encourage you to learn more about ELM, which is offered within the CSLP's Learning Toolkit Plus, a digital resource available to the educational community at no charge. For more information, please visit our promo page - [www.concordia.ca/ltk](http://www.concordia.ca/ltk).

